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[End-to-end service failure diagnosis using belief networks - all 6 versions »](#)

M Steinder, AS Sethi - Network Operations and Management Symposium, 2002. NOMS 2002 ..., 2002 - [ieeexplore.ieee.org](#)

... the MPE query based on the **evidence** set e ... to find the best symptom explanation with

causal dependencies between ... n to denote the number of **nodes** (bridges, routers) ...

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[Real time intelligent sensor validation - all 2 versions »](#)

PH Ibarquengoytia, LE Sucar, S Vadera - Power Systems, IEEE Transactions on, 2004 - [ieeexplore.ieee.org](#)

... Thus, given more **evidence** about the state of apparent faults in the ... 5. **Bayesian network**

for this application ... between two variables form one kind of **nodes** in a ...

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[SEDPRET—an intelligent system for the diagnosis and prediction of events in power plants - all 3 versions »](#)

G Arcoyo-Figueroa, Y Alvarez, LE Sucar - Expert Systems With Applications, 2000 - Elsevier

... 1. Temporal **nodes Bayesian network** for the drum level system ... the event(s); 2.

propagation of the evidence occurrence through ... The attributes of each **node** are name ...

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[\[PDF\] Bayesian fault detection and diagnosis in dynamic systems - all 10 versions »](#)

U Lerner, R Parr, D Koller, G Biswas - Proc. AAAI, 2000 - [robotics.stanford.edu](#)

... connection between the **D nodes** to react ... 3.1 Tracking and smoothing Our dynamic

Bayesian network represents the ... into consideration all of the **evidence** up to ...

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[Improving the analysis of dependable systems by mapping fault trees into Bayesian networks - all 3 versions »](#)

A Bobbio, L Portinale, M Minichino, E Ciancamerla - Reliability Engineering and System Safety, 2001 - Elsevier

... XE_i for each variable X , given the **evidence** E . While ... 4. (a) Fault tree and (b) **Bayesian**

network for the ... 4b, the CPT entries for the **node** Fault (corresponding ...

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[\[PDF\] Not-So-Naïve Bayesian Networks and Unique Identification in Developing Advanced Diagnostics - all 2 versions »](#)

J Sheppard, S Butcher, M Kautman, C MacDougall - Proceedings of the IEEE Aerospace Conference, 2005 - [cs.jhu.edu](#)

... The NBN starts out as a naïve **Bayesian network** by assuming **evidence nodes**

are conditionally independent given the class **nodes**. ...

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[\[PDF\] Bayesian Belief Networks - all 2 versions »](#)

S Woodruff - 2003 - [mrcmekong.org](#)

... Note that for the case displayed, no **evidence** has been instantiated, therefore ... or

false) simply refer to the m distribution across all **nodes** ... 14 Causal Inference ...

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[Evaluation of Bayesian networks used for diagnostics - all 3 versions »](#)

KW Przytyla, D Dash, D Thompson - Aerospace Conference, 2003. Proceedings, 2003 IEEE, 2003 - [ieeexplore.ieee.org](#)

... 3.2 **Bayesian Network** Evaluation Algorithm ... 3.2. Using BN inference, calculate the **posterior** distribution of that **node** given the **evidence** so far. 3.3. ...

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Accounting for false indication in a Bayesian diagnostics framework

JW Sheppard - AUTOTESTOON 2003. IEEE Systems Readiness Technology 2003 - [ieeexplore.ieee.org](#)

... predicting **probability** of false indication, predicting **probability** of **failure** ... and full information about the **system** under test, **diagnostic** errors will ...

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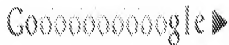
[PDF] Applications of object-oriented Bayesian networks for **causal** analysis of process disturbances

G Weidt, A Madsen, E Dahlquist - Proc. 44th Scandinavian Conf. Simulation and Modeling, 2003 - [isa.uni-stuttgart.de](#)

... in the **system** design and providing **evidence** for automated ... A **Bayesian network** is a set of **nodes** representing ... dependency relations of the child **node** on the ...

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Equivalence and synthesis of causal models

T Verma, J Pearl - Proceedings of the Sixth Annual Conference on Uncertainty in ..., 1990 - portal.acm.org

... Probabilistic decision graphs-combining **verification** and AI ... Gregory F. Cooper, **Model**

Averaging for Prediction with Discrete **Bayesian Networks**, The Journal ...

[Cited by 322](#) - [Related Articles](#) - [Web Search](#)

Coverage Directed Test Generation for Functional Verification using Bayesian Networks - all 16 versions »

S Fine, A Ziv - Proceedings of Design Automation Conference (DAC), 2003 - doi.ieeecomputersociety.org

... in the oth- erwise highly automated **verification** process. ... first setting, we used

a **Bayesian network** to generate instruction streams to an abstract **model** of the ...

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[BOOK] Expert Systems and Probabilistic Network Models

E Castillo, JM Gutiérrez, AS Hadi - 1997 - books.google.com

... Chapter 6 presents the Markov and **Bayesian network models** as two of the most widely used graphical ... 481 11.2 Measuring the Quality of a **Bayesian Network Model** ...

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[PDF] Modelling gene expression data using dynamic Bayesian networks - all 13 versions »

K Murphy, S Mian - University of California, Berkeley, 1999 - cs.ubc.ca

... all special cases of a general class of mod- els called Dynamic **Bayesian Networks** (DBNs). The advantages of DBNs include the ability to **model** stochasticity, to ...

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Evidential reasoning using stochastic simulation of causal models - all 2 versions »

J Pearl - Artificial Intelligence, 1987 - portal.acm.org

... the abstract hidden Markov **model**, Hidden Markov **models**: applications in ... Ozteta, On the use of **Bayesian Networks** to develop ... General Terms: Theory, **Verification**. ...

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... of inferring genetic regulatory interactions from microarray experiments with dynamic Bayesian ... - all 13 versions »

D Husmeier - Bioinformatics, 2003 - Oxford Univ Press

... from those asso- ciated with the edges of a **Bayesian network**, which means, we have a mismatch between the real data-generating process and the **model** used for ...

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[BOOK] Artificial intelligence: a modern approach - all 9 versions »

SJ Russell, P Norvig

... use of AI planning for handsets **network** test automation ... Dohsaka , Akira Shimazu, A computational **model** of incremental ... M. Coughlan , AL Yuille, **Bayesian** a* tree ...

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Probabilistic Boolean networks: a rule-based uncertainty model for gene regulatory networks - all 12 versions »

I Shmulevich, ER Dougherty, S Kim, W Zhang - Bioinformatics, 2002 - Oxford Univ Press

... provide new hy- potheses for experimental **verification**. ... regulatory **networks**, including linear **models** (van Someren ... et al., 1999), **Bayesian networks** (Murphy and ...

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DE Rumelhart, GE Hinton, RJ Williams - Mit Press Computational Models Of Cognition And Perception ..., 1986 - portal.acm.org

... Automating judgmental decisions using neural **networks**: a **model** for processing ...

Sun-Mi Lee , Patricia A. Abbott, **Bayesian networks** for knowledge discovery in ...

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DE Heckermann - 1991 - MIT Press Cambridge, MA, USA

... possibilistic graphical **models**, Artificial Intelligence, v ... Moises Goldszmidt, **Bayesian**

Network Classifiers ... Experimentation, Performance, Theory, **Verification**. ...

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[A Bayesian network approach to making inferences in causal maps - all 6 versions »](#)

S Nadkarni, PP Shenoy - European Journal of Operational Research, 2001 - Elsevier

... This is called the procedure of **evidence propagation**, ie, how ... able to combine them into a **conclusion** and decision ... of the variables in a **Bayesian network** is to ...

[Cited by 41](#) - [Related Articles](#) - [Web Search](#)

[\[PDF\] A survey of algorithms for real-time Bayesian network inference - all 6 versions »](#)

H Guo, W Hsu - In the joint AAAI-02/KDD-02/UAI-02 workshop on Real-Time ..., 2002 - cis.ksu.edu

... of an evaluation (map of the **evidence** and query nodes). ... Applying NFL to the problem of **Bayesian network** inference, we can draw the **conclusion** that there ...

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[DIAVAL, a Bayesian expert system for echocardiography - all 5 versions »](#)

FJ Díez, J Mira, E Iturrakde, S Zubillaga - Artificial Intelligence in Medicine, 1997 - Elsevier

... 5. **Conclusions** ... and by the application of the local conditioning algorithm for propagating **evidence**. ... However, DIAVAL is not only a **Bayesian network**, but a true ...

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[The evaluation of evidence in the forensic investigation of fire incidents \(Part I\): an approach ... - all 4 versions »](#)

A Siedermann, F Taroni, O Delamont, C Semadeni, AC ... - Forensic Science International, 2005 - Elsevier

... 7. Discussion and **conclusions**. ... assisting this process, since the value of **evidence** is expressed ... Moreover, the use of a **Bayesian network** shows that an ultimate ...

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[Local conditioning in Bayesian networks - all 6 versions »](#)

FJ Díez - Artificial Intelligence, 1996 - Elsevier

... known methods and, finally, the **conclusion** offers suggestions ... even be integrated with **evidence propagation** (Section 4 ... how to transform a **Bayesian network** (Fig. ...

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[A causal mapping approach to constructing Bayesian networks - all 16 versions »](#)

S Nadkarni, PP Shenoy - Decision Support Systems, 2004 - Elsevier

... variables, which constitute the observed **evidence** [25 ... to combine them into a **conclusion** and decision ... acyclic graphical structure required in a **Bayesian network**. ...

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[Symbolic propagation and sensitivity analysis in Gaussian Bayesian networks with application to ... - all 5 versions »](#)

E Castillo, JM Gutiérrez, AS Hadí, C Solares - Artificial Intelligence in Engineering, 1997 - Elsevier

... Finally, in section 7 we give some **conclusions**. ... Then, the next step in **Bayesian network** formulation ... and efficient method for **evidence propagation** in Gaussian ...

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[Application of a Bayesian network in a GIS based decision making system - all 5 versions »](#)

A Stassopoulou, M Petrou, J Kittler - International Journal of Geographical Information Science, 1998 - ingentaconnect.com

... conclusions concerning the input nodes. ... The purpose of the Bayesian network is to give a belief in each ... being in each of its states given the evidence observed ...

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[\[PDF\] A Bayesian belief network approach to multi-sensor kinematic and attribute tracking](#)

ML Krieg - 2002 - dspace.dsto.defence.gov.au

... 4] have proposed a generalised Bayesian network structure with a ... lated tracking example, and the conclusions drawn from ... Figure 1: Evidence propagation in a BBN ...

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[\[PDF\] Explanation for causal Bayesian networks in Elvira - all 2 versions »](#)

C Lacave - IDAMAP 2002, 2002 - rouxemmanuel.free.fr

... the macro level analyzes the main lines of reasoning that led to the conclusions. ...

Definition 1 Given a Bayesian network² and a certain evidence, an Evidence ...

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